Applicant : Michihiro Ota
Serial No. : 10/537,441
Filed : June 2, 2005
Page : 2 of 10

Attorney's Docket No.: 19291-002US1 / MEC0923/C-
676US

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-18. (Canceled)

19. (New) A cardless sales method in a cardless sales system comprising:

an issuing device that issues card issuing information including card information;

a mobile communication terminal that receives the card issuing information issued by the issuing device through wireless communication and stores therein the received card issuing information;

a sales processing device that performs predetermined sales processing based on the card issuing information received from the mobile communication terminal; and

a settlement device that collects sales information related to a sales transaction performed using the card issuing information from the sales processing device and performs settlement processing on the sales information,

the cardless sales method comprising:

a first step of encrypting the card information with a first key to generate first information;

a second step of encrypting the first information generated at the first step with a second key to generate second information;

a third step of issuing third information including the first information and the second information as the card issuing information;

a fourth step of separating the first information and the second information from the third information received from the mobile communication terminal;

Applicant : Michihiro Ota
Serial No. : 10/537,441
Filed : June 2, 2005
Page : 3 of 10

Attorney's Docket No.: 19291-002US1 / MEC0923/C-
676US

a fifth step of encrypting the first information separated at the fourth step with the second key;

a sixth step of comparing the second information separated at the fourth step with the first information encrypted at the fifth step, and determining that the card information included in the card issuing information is valid when the second information separated at the fourth step coincides with the first information encrypted at the fifth step; and

a seventh step of performing the predetermined sales processing based on the card issuing information when the card information is determined to be valid at the seventh step,

the first, second and third steps being performed by the issuing device, and the fourth, fifth, sixth and seventh steps being performed by the sales processing device.

20.   (New) The cardless sales method according to claim 19, wherein the third information is information that is prepared by encrypting with a third key a synthetic signal obtained by synthesizing the first information and the second information,

the mobile communication terminal stores the third information and transmits the third information to the sales processing device, and

the first information and the second information are separated from the third information after decrypting the third information with the third key.

21.   (New) The cardless sales method according to claim 19, wherein the second key is generated by using a password managed in confidence between the issuing device and the sales processing device or at least a part of the card information.

22.   (New) The cardless sales method according to claim 19, wherein the sales processing device is an automatic vending machine, which permits the sales transaction using the card issuing information when the card information is determined to be valid, and stores and accumulates sales price information related to the sales transaction together with the first information when the sales transaction is executed.

23. (New) The cardless sales method according to claim 22, wherein the settlement device

collects the first information and the sales price information accumulated in the sales processing device;

decrypts the first information with the first key to obtain the card information; and

performs settlement processing on the sales price information based on the card information thus obtained.

24. (New) A cardless sales system comprising:

an issuing device that issues card issuing information including card information;

a mobile communication terminal that receives the card issuing information issued by the issuing device through wireless communication and stores the received card issuing information;

a sales processing device that performs predetermined sales processing based on the card issuing information received from the mobile communication terminal; and

a settlement device that collects sales information related to a sales transaction performed using the card issuing information from the sales processing device and performs settlement processing on the sales information,

wherein the issuing device comprises:

a first generating means for encrypting the card information with a first key to generate first information;

a second generating means for encrypting the first information generated by the first generating means with a second key to generate second information; and

an issuing means for issuing a third information including the first information and the second information as the card issuing information, and

wherein the sales processing device comprises:

Applicant : Michihiro Ota
Serial No. : 10/537,441
Filed : June 2, 2005
Page : 5 of 10

Attorney's Docket No.: 19291-002US1 / MEC0923/C-
676US

a separating means for separating the first information and the second

information from the third information received from the mobile communication

terminal;

an encryption means for encrypting the first information separated by the

separating means with the second key;

a determination means for comparing the second information separated by

the separating means with the first information encrypted by the encryption

means, and determining that the card information included in the car issuing

information is valid when the second information separated by the separating

means coincides with the information encrypted by the encryption means; and

a sales performing means for performing predetermined sales processing

based on the card issuing information when the card information is determined to

be valid by the determination means.

25.   (New) The cardless sales system according to claim 24, wherein the third

information is information which is prepared by encrypting with a third key a synthetic signal

obtained by synthesizing the first information and the second information, and

the separating means separates the first information and the second information after

decrypting the third information with the third key.

26.   (New) The cardless sales system according to claim 24, wherein the second key is

generated by using a password managed in confidence between the issuing device and the sales

processing device or at least a part of the card information.

27.   (New) The cardless sales system according to claim 24, wherein the sales

processing device is an automatic vending machine, which comprises sales permitting means for

permitting the sales transaction using the card issuing information when the card information is

determined to be valid by the determination means; and

storing and accumulating means for storing and accumulating sales price information related to the sales transaction together with the first information when the sales transaction permitted by the sales permitting means is executed.

28. (New) The cardless sales system according to claim 27, wherein the settlement device comprises:

collecting means for collecting the first information accumulated in the sales processing device and the sales price information;

decryption means for decrypting the first information collected by the collecting means with the first key to obtain the card information; and

settlement means for performing settlement processing on the sales price information based on the card information decrypted by the decryption means.